

AMENDMENTS TO THE CLAIMS

1. (Previously presented) A method for extracting data from a network by a server, comprising:

- (a) enabling a database-structured query with at least one fundamental clause to be generated by a user;
- (b) determining a web domain address on the network from which to extract the data;
- (c) extracting the data from the web domain address directly by retrieving a non-database structured arrangement of data from the determined web domain address and performing the database-structured query upon the retrieved non-database structured arrangement of data; and
- (d) providing the extracted data from the determined web domain address in a data log directly to the user.

2. (Original) The method of Claim 1, wherein creating the database-structured query, further comprises, including a network address within the database-structured query indicating a starting point.

3. (Previously presented) The method of Claim 2, wherein the determined web domain address, includes at least one universal resource locator (URL).

4. (Previously presented) The method of Claim 2, wherein directly extracting data from the determined web domain address, further comprises, following links contained within the web domain until the links have been exhausted or following the links until a predetermined limit is reached.

5. (Original) The method of Claim 1, wherein creating the database-structured query, further comprises, creating a regular expression within the database-structured query used to determine the data to extract.

6. (Previously presented) The method of Claim 5, wherein directly extracting data from the web domain further comprises matching a plurality of patterns contained within the regular expression to the retrieved data to determine the data to extract.

7. (Currently amended) The method of Claim 1, wherein creating the database-structured query, further comprises, creating a conditional expression within the database-structured query describing [[how]] where to start and stop to scan the data at the determined web domain address for the data to extract.

8. (Previously presented) The method of Claim 1, wherein directly extracting the data from the web domain, further comprises:

- (b) reducing the retrieved data to a region of interest; and
- (c) searching the region of interest for the data matching a predetermined regular expression.

9. (Previously presented) The method of Claim 8, wherein directly extracting the data from the web domain, further comprises, storing the data matching the predetermined regular expression.

10. (Previously presented) The method of Claim 1, further comprising, reshaping at least a portion of the extracted data for use by at least one data analysis software program.

11. (Currently amended) A computer-readable medium having computer-executable instructions for extracting data from a network, the computer-executable instructions enabling actions comprising:

- (a) creating a database-structured query with at least one fundamental clause including a web domain address used for locating data, based, in part, on a user input;
- (b) locating data based on the web domain address provided by the database-structured query;

(c) extracting at least a portion of the located data directly by retrieving a non-database structured arrangement of data from the located data and performing the database-structured query upon the retrieved non-database structured arrangement of data; and

(d) providing the extracted data from the web domain address in a ~~data-log~~ tab delimited data file directly to the user.

12. (Currently amended) The computer-readable medium of Claim 11, wherein the database-structured query, further comprises, a network address included within the database-structured query indicating a starting point to start to crawl the network.

13. (Currently amended) The computer-readable medium of Claim 12, wherein the network address, further comprises at least one universal resource locator (URL) string generated by a sequence or list function.

14. (Previously presented) The computer-readable medium of Claim 11, wherein the web domain address, further comprises at least one link to another web domain address for locating data to extract.

15. (Original) The computer-readable medium of Claim 11, wherein the database-structured query, further comprises, a regular expression within the database-structured query used to determine the data to extract.

16. (Currently amended) The computer-readable medium of Claim 15, wherein the regular expression within the database-structured query, further ~~comprises at least one pattern used to determine the data to extract~~ defines where a scan would stop.

17. (Currently amended) A system for extracting data from a network comprising:
- (a) a client computer system having a client network connection to the network and communicating with a server computer system, the client creating a database-structured query with at least one fundamental clause, based, in part, on a user input;
 - (b) the server computer system having a server network connection to the network and communicating with the client computer system, the server computer system further configured to perform actions, comprising:
 - receiving the database-structured query from the client computer system;
 - determining a web domain address on the network from which to extract at least a portion of the data relevant to the query, wherein the determined web domain address is provided by the database-structured query;
 - extracting at least the portion of the data from the web domain address directly by retrieving a non-database structured arrangement of data from the determined web domain address and performing the database-structured query upon the retrieved non-database structured arrangement of data; and
 - providing the extracted data from the web domain address in a data-log-tab delimited data file directly to the user.
18. (Original) The system of Claim 17, wherein the database-structured query, further comprises, a network address within the database-structured query indicating a starting point.
19. (Original) The system of Claim 18, wherein the database-structured query, further comprises, a regular expression within the database-structured query used to determine the data to extract.
20. (Currently amended) The system of Claim 19, wherein the regular expression within the database-structured query, further comprises, at least one pattern symbol used to determine denote the data to extract part of the regular expression that a user desires to extract.

21. (Original) The system of Claim 17, further comprising an editor for creating a template of regular expressions used to extract the data.

22. (Original) The system of Claim 17, further comprising at least one data extraction engine to extract the data.

23. (Original) The system of Claim 22, wherein the data extraction engine is a web crawler.

24. (Previously presented) The method of claim 1, wherein the web domain address further comprises at least one link address for locating at least a portion of the data.

25. (Currently amended) The computer-readable medium of claim 11, wherein the web domain address further comprises at least one link address that is followed to locate data to extract until a ~~predetermined~~ user-specified number of links is reached.

26. (Previously presented) The system of claim 17, wherein the web domain address further comprises a link address, wherein at least another portion of the data is located with the link address.

27. (Previously presented) A method of extracting data from a network by a server, comprising:

- (a) creating a database-structured query with at least one fundamental clause at the server based, in part, on a user input;
- (b) determining a website to search based in part on the database-structured query;
- (c) extracting at least a portion of the data relevant to the database-structured query at the website directly based on the database-structured query, wherein the website is processed as a searchable database, whereby a non-database arrangement of data is retrieved from the website and the database-structured query is performed upon at least the retrieved non-database arrangement of

data to extract at least the portion of the data from the retrieved non-database arrangement of data;
and

- (d) providing the extracted data from the website in a data log directly to the user.

28. (Previously presented) The method of claim 27, wherein determining the website to search further comprises parsing the database-structured query to determine at least one link to search at the website.

- 29. (Previously presented) The method of claim 27, further comprising:

- (a) determining at least one other website to search based in part on the database-structured query and a provided web domain address; and

- (b) extracting at least another portion of the data at the at least one other website based on the database-structured query and the provided web domain address, wherein the at least one other website includes a non-database structured arrangement of data that is processed as a searchable database.

30. (Previously presented) The method of claim 27, wherein determining the website to search further comprises determining what data to extract based in part on the database-structured query and a provided web domain address.

31. (Previously presented) The method of claim 27, wherein extracting at least a portion of the data further comprises extracting data based in part on at least one of an Hypertext Markup Language (HTML) table, a binary file, and a matching pattern.

32. (Previously presented) The method of claim 27, further comprising, reshaping the extracted data for at least one of a database, a spreadsheet, Extensible Markup Language (XML) display, and a statistical tool.

33. (Previously presented) The method of claim 27, wherein the website is a starting website based in part on the database-structured query.

34. (Previously presented) A method of extracting data within at least one webpage, comprising:

- (a) generating a database-structured query with at least one fundamental clause based, in part, on a user's input;
- (b) determining at least one webpage with the data, wherein the determination of the webpage is provided by the database-structured query;
- (c) parsing the data at the at least one webpage in search of data that satisfies a query condition, wherein the data at the at least one webpage is directly processed as though it is a searchable database, whereby a non-database structured arrangement of data is retrieved at the at least one webpage and the database-structured query is performed upon the retrieved non-database structured arrangement of data;
- (d) extracting at least a portion of the data from the retrieved non-database structured arrangement of data that satisfies the query condition;
- (e) reshaping the extracted data to a predetermined format; and
- (f) providing the extracted data from the webpage in a data log directly to the user.

35. (Previously presented) The method of Claim 34, wherein the search of data is performed on at least a second webpage.

36. (Previously presented) The method of Claim 34, wherein parsing the data of the at least one webpage further comprises following links included on the webpage and further parsing the data of webpages determined by the links included on the webpage.

37. (Previously presented) The method of Claim 34, wherein the structured query is generated to parse a limited portion of the data of the at least one webpage with the limits predetermined by the user.

38. (Previously presented) The method of Claim 34, wherein the structured query is generated to search for at least one of a text string, a table, and a predefined list of words.

39. (Canceled)

40. (Canceled)

41. (Previously presented) The method of Claim 1, wherein the at least one fundamental clause includes a request to parse an HTML table, and wherein extracting the data further comprises extracting data from the HTML table.

42. (Previously presented) The method of Claim 8, further comprising providing authentication data to the web domain.

43. (Previously presented) The method of Claim 34, wherein the extracted data includes at least one binary file.

44. (Previously presented) The system of Claim 17, wherein the server computer system is further configured to perform the actions including:
storing the database-structured query; and
providing a stored database-structured query to the client computer system upon user input request.

REMARKS

Prior to entry of this paper, Claims 1-38 and 41-44 were pending. Claims 1-38 and 41-44 were rejected. In this paper, Claims 7, 11-13, 16-17, 20, 25 are amended; Claims 1-38 and 41-44 are currently pending. No new matter is added by way of this amendment. For at least the following reasons, Applicant respectfully submits that each of the presently pending claims is in condition for allowance.

Claim Rejections – 35 U.S.C. § 103

Claims 1, 2, 3, 5, 6, 10, 17-24, 26, 34, 37, and 38 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Madnick et al. (US 5,913,214) in view of Iizuka et al. (US 6,424,980) and Bates et al. (US 6,873,982). Claims 4, 35, and 36 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Madnick et al. (US 5,913,214) in view of Iizuka et al. (US 6,424,980) and Bates et al. (US 6,873,982) and further in view of Hennings et al. (US 6,763,496). Claim 7 is rejected under 35 U.S.C. 103 (a) as being unpatentable over Madnick et al. (US 5,913,214) in view of Iizuka et al. (US 6,424,980) and Bates et al. (US 6,873,982) and further in view of Jammes et al. (US 6,484,149). Claims 8-9 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Madnick et al. (US 5,913,214) in view of Iizuka et al. (US 6,424,980) and Bates et al. (US 6,873,982) and further in view of Jammes et al. (US 6,484,149) and Christianson et al. (US 6,085,186). Claims 11-13, 15-16, 27-28, and 30-33 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Madnick et al. (US 5,913,214) in view of Bates et al. (US 6,873,982). Claims 14, 25, and 29 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Madnick et al. (US 5,913,214) in view of Bates et al. (US 6,873,982) and further in view of Hennings et al. (US 6,763,496). Claim 42 was rejected under 35 U.S.C. 103(a) as being unpatentable over Madnick et al (US 5,913,214) in view of Iizuka et al (US 6,424,980) and Bates et al (US 6,873,982) and Fleskes (US 6,529,910). Claim 43 was rejected under 35 U.S.C. 103(a) as being unpatentable over Madnick et al (US 5,913,214) in view of Iizuka et al (US 6,424,980) and Bates et al (US 6,873,982) and Eckes (US 6,873,982). Claims 41 and 44 were rejected under 35 U.S.C. 103(a) as being unpatentable over Madnick et al